

[illegible]

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gcatcacact tggttaatag taggtcctgt tgттаagtct ctaatggcga taccctatgg	180

069243

325								330				335				
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Leu	Leu	Leu	Leu	Leu	Pro	Thr	Leu	Gln	Ser	Ile	Thr	Trp	Gln	Met	Ile	
340				345				350								
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Glu	Gln	Ile	Gln	Phe	Ile	Lys	Leu	Phe	Gly	Met	Ala	Lys	Ile	Asp	Asn	
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Leu	Leu	Gln	Glu	Met	Leu	Leu	Gly	Gly	Ser	Pro	Ser	Asp	Ala	Pro	His	
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gcc	cac	cac	ccc	ctg	cac	cct	cac	ctg	atg	cag	gaa	cat	atg	gga	acc	1257
Ala	His	His	Pro	Leu	His	Pro	His	Leu	Met	Gln	Glu	His	Met	Gly	Thr	
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Asn	Val	Ile	Val	Ala	Asn	Thr	Met	Pro	Thr	His	Leu	Ser	Asn	Gly	Gln	
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Met	Cys	Glu	Trp	Pro	Arg	Pro	Arg	Gly	Gln	Ala	Ala	Thr	Pro	Glu	Thr	
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Pro	Gln	Pro	Ser	Pro	Pro	Gly	Gly	Ser	Gly	Ser	Glu	Pro	Tyr	Lys	Leu	
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Ser	Pro	Glu	Ser	Lys	Asp	Ser	Thr	Glu	Met	Ser	Leu	Glu	Arg	Ser	Ser	
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Gln	Asp	Pro	Ser	Val	Pro	Gln	Asn	Pro	Pro	Thr	Pro	Leu	Gly	His	Ser	
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Asn	Pro	Leu	Asp	His	Gln	Ile	Pro	Leu	Asp	Pro	Pro	Ala	Pro	Glu	Val	
	85					90					95					
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Val	Pro	Thr	Pro	Ser	Asp	Trp	Thr	Lys	Ala	Cys	Glu	Ala	Ser	Trp	Gln	
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Trp	Gly	Ala	Leu	Thr	Thr	Trp	Asn	Ser	Pro	Pro	Val	Val	Pro	Ala	Asn	
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Cys	Ser	Glu	Cys	Gly	Lys	Ser	Phe	Thr	Gln	Ser	Ser	His	Leu	Val	Gln	
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Gly	Lys	Cys	Phe	Ser	Trp	Ser	Ser	Asn	Leu	Val	Gln	His	Gln	Arg	Thr	
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Lys</																

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735

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[illegible]

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Asn Leu Phe Ser Asn Lys Val Leu Asn Ala Leu Lys Pro Glu Lys Asp
55 60 65

gtg gat gga gta aca gac ata aac ctg ggg aag ctg gtg cga ggg gat 896
Val Asp Gly Val Thr Asp Ile Asn Leu Gly Lys Leu Val Arg Gly Asp
70 75 80

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165 170 175 180

13

Asn	Cys	Ser	His	Asp 185	Phe	Leu	Ser	Gly	Lys 190	Val	Gly	Cys	Gly	Ser 195	Pro		
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Gln	Pro	Leu	Ser	Pro	Val	Pro	Ser	Asp	Ile	Glu	Ile	Ser	Arg	Gly	Gln		
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Asp	Glu	Ile	Glu	Ile	Tyr	Gly	Lys	Ser	Lys	Ala	Lys	Val	Arg	Leu	Ser		
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Val	Leu	Glu	Arg	Leu	Lys	Asp	Gln	Ala	Asp	Gly	Lys	Tyr	Val	Leu	Val		
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Ala	Gly	Ile	Thr	Pro	Thr	Pro	Leu	Gly	Glu	Gly	Lys	Ser	Thr	Val	Thr		
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Ser	Glu	Ile	Met	Ala	Val	Leu	Ala	Leu	Thr	Asp	Ser	Leu	Ala	Asp	Met	
505				510				515								
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Lys	Ala	Arg	Leu	Gly	Arg	Met	Val	Val	Ala	Ser	Asp	Lys	Ser	Gly	Gln	
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535				540				545								
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Pro	Val	Phe	Val	His	Ala	Gly	Pro	Phe	Ala	Asn	Ile	Ala	His	Gly	Asn	
565				570				575				580				
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Ser	Ser	Val	Leu	Ala	Asp	Lys	Ile	Ala	Leu	Lys	Leu	Val	Gly	Glu	Glu	
585				590				595								
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Gly	Phe	Val	Val	Thr	Glu	Ala	Gly	Phe	Gly	Ala	Asp	Ile	Gly	Met	Glu	
600				605				610								
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Lys	Phe	Phe	Asn	Ile	Lys	Cys	Arg	Ala	Ser	Gly	Leu	Val	Pro	Asn	Val	
615				620				625								
gtt	gtg	tta	gtg	gca	acg	gtg	cga	gct	ctg	aag	atg	cat	gga	ggc	ggg	2576
Val	Val	Leu	Val	Ala	Thr	Val	Arg	Ala	Leu	Lys	Met	His	Gly	Gly	Gly	
630				635				640								

cca Pro 645	agt Ser	gta Val	acg Thr	gct Ala	ggg Gly 650	gtt Val	cct Pro	ctt Leu	aag Lys	aaa Lys 655	gaa Glu	tat Tyr	aca Thr	gag Glu	gag Glu 660	2624
aac Asn	atc Ile	cag Gln	ctg Leu	gtg Val 665	gca Ala	gac Asp	ggc Gly	tgc Cys	tgt Cys 670	aac Asn	ctc Leu	cag Gln	aag Lys	caa Gln	att Ile 675	2672
cag Gln	atc Ile	act Thr	cag Gln	ctc Leu	ttt Phe	ggg Gly	gtt Val	ccc Pro	gtt Val	gtg Val	gtg Val	gct Ala	ctg Leu	aat Asn	gtc Val	2720
ttc Phe	aag Lys	acc Thr	gac Asp	acc Thr	cgc Arg	gct Ala	gag Glu	att Ile	gac Asp	ttg Leu	gtg Val	tgt Cys	gag Glu	ctt Leu	gca Ala	2768
aag Lys	cgg Arg	gct Ala	ggg Gly	gcc Ala	ttt Phe	gat Asp	gca Ala	gtc Val	ccc Pro	tgc Cys	tat Tyr	cac His	tgg Trp	tcg Ser	gtt Val	2816
ggg Gly 725	gga Gly	aaa Lys	gga Gly	tcg Ser	gtg Val	gac Asp	ttg Leu	gct Ala	cgg Arg	gct Ala	gtg Val	aga Arg	gag Glu	gct Ala	gcg Ala 740	2864
agt Ser	aaa Lys	aga Arg	agc Ser	cga Arg	ttc Phe	cag Gln	ttc Phe	ctg Leu	tat Tyr	gat Asp	gtt Val	cag Gln	gtt Val	cca Pro	att Ile 755	2912
gtg Val	gac Asp	aag Lys	ata Ile	agg Arg	acc Thr	att Ile	gct Ala	cag Gln	gct Ala	gtc Val	tat Tyr	gga Gly	gcc Ala	aaa Lys	gat Asp	2960
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ttt Phe	tat Tyr	gac Asp	ata Ile	gat Asp	ctt Leu	gat Asp	acc Thr	gaa Glu	aca Thr	gaa Glu	caa Gln	gtt Val	aaa Lys	ggc Gly	ttg Leu	3248

ggaactcaat caaaatgagc catagcggga ccacaagggc aaggagacca ccaccttctc 621
cagtctctct tcggacagcc agtaattccc gggcaaggcc agagacttca agtctatctg 681
aaaagtctcc agaggtctaa cccagataa atagccaaca ggggtgtagag tacattttac 741
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cggctacaga ggaaaggcca agaatggaca gattaataaa gggccatcta caagccacga 180
ataaggccat caccagaagc caaccccgcc agtccttgat ctaggacttc cagacttcaa 240
aacttttcta gcctgctggc ctgccttcac tgtcctgggg gagacttgga gagaccaggt 300
ggactggagt agactgttga gagacgctgg tctggtgaag atg tcc agg aaa cca 355
Met Ser Arg Lys Pro
1 5
cga gcc tcc agc cca ttg tcc aac aac cac cca cca aca cca aag agg 403
Arg Ala Ser Ser Pro Leu Ser Asn Asn His Pro Pro Thr Pro Lys Arg
10 15 20
cga gga agt gga agg cat cct ctc atc cct ggc cca gaa gcc cta tca 451
Arg Gly Ser Gly Arg His Pro Leu Ile Pro Gly Pro Glu Ala Leu Ser
25 30 35
aag ttc cca aga caa ccc gga agg gaa aag gga ccc atc aag gaa gtt 499
Lys Phe Pro Arg Gln Pro Gly Arg Glu Lys Gly Pro Ile Lys Glu Val
40 45 50
cca gga aca aaa ggc tct ccc taa aagaccgccg cttcaaaaaa acctgaggaa 553
Pro Gly Thr Lys Gly Ser Pro *
55 60
tggagtgggc caacactatc cagccactct gaccagccga acgaggaact caatcaaaat 613
gagccatagc gggaccacaa gggcaaggag accaccacct tctccagtct ctcttcggac 673

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	160					165					170					
ctt Leu	aaa Lys	aga Arg	gac Asp	tgt Cys	gga Gly	gcc Ala	ata Ile	ttg Leu	gag Glu	aat Asn	atg Met	aag Lys	caa Gln	ttt Phe	tca Ser	578
	175				180					185					190	
gaa Glu	gcg Ala	gcc Ala	caa Gln	ctg Leu	tat Tyr	gaa Glu	aaa Lys	ggt Gly	ctc Leu	tac Tyr	tac Tyr	gat Asp	aaa Lys	gca Ala	gca Ala	626
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tct Ser	gtt Val	tac Tyr	atc Ile	cgc Arg	tct Ser	aag Lys	aat Asn	tgg Trp	gca Ala	aaa Lys	gtt Val	ggt Gly	gat Asp	ctt Leu	ctg Leu	674
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ccc Pro	cac His	gtt Val	tct Ser	tct Ser	cct Pro	aag Lys	atc Ile	cat His	ttg Leu	cag Gln	tat Tyr	gcc Ala	aaa Lys	gcc Ala	aag Lys	722
		225					230					235				
gaa Glu	gca Ala	gat Asp	gga Gly	aga Arg	tac Tyr	aaa Lys	gaa Glu	gct Ala	gtt Val	gta Val	gct Ala	tat Tyr	gaa Glu	aat Asn	gca Ala	770
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aaa Lys	cag Gln	tgg Trp	caa Gln	agt Ser	gta Val	atc Ile	cgc Arg	atc Ile	tat Tyr	ctg Leu	gat Asp	cac His	ctc Leu	aat Asn	aat Asn	818
	255				260					265					270	
cct Pro	gaa Glu	aaa Lys	gct Ala	gtc Val	aat Asn	att Ile	gtt Val	aga Arg	gag Glu	acc Thr	cag Gln	tct Ser	ctg Leu	gat Asp	gga Gly	866
				275					280					285		
gcc Ala	aaa Lys	atg Met	gta Val	gcc Ala	agg Arg	ttt Phe	ttt Phe	cta Leu	cag Gln	ctt Leu	ggt Gly	gac Asp	tat Tyr	ggg Gly	tct Ser	914
			290					295					300			
gcc Ala	atc Ile	cag Gln	ttt Phe	ctt Leu	gtc Val	atg Met	tcc Ser	aaa Lys	tgc Cys	aac Asn	aat Asn	gaa Glu	gct Ala	ttc Phe	aca Thr	962
		305					310					315				
ctg Leu	gct Ala	cag Gln	caa Gln	cac His	aac Asn	aaa Lys	atg Met	gaa Glu	atc Ile	tat Tyr	gca Ala	gat Asp	att Ile	att Ile	ggt Gly	1010
	320					325					330					
tct Ser	gaa Glu	gac Asp	act Thr	act Thr	aat Asn	gaa Glu	gac Asp	tat Tyr	caa Gln	agc Ser	att Ile	gcc Ala	tta Leu	tac Tyr	ttt Phe	1058
	335				340					345					350	
gaa Glu	gga Gly	gaa Glu	aag Lys	aga Arg	tat Tyr	ctt Leu	cag Gln	gct Ala	gga Gly	aaa Lys	ttc Phe	ttc Phe	ttg Leu	ctg Leu	tgt Cys	1106
				355				360						365		
ggc Gly	caa Gln	tat Tyr	tca Ser	cga Arg	gca Ala	ctt Leu	aaa Lys	cac His	ttc Phe	ctg Leu	aaa Lys	tgc Cys	cca Pro	agc Ser	tcg Ser	1154
			370					375					380			

gaa gat aat gtg gca ata gaa atg gca att gaa act gtt ggt cag gcc	1202
Glu Asp Asn Val Ala Ile Glu Met Ala Ile Glu Thr Val Gly Gln Ala	
385 390 395	
aaa gat gaa ctg ctg acc aat cag ctg ata gac cat ctc ctg ggg gag	1250
Lys Asp Glu Leu Leu Thr Asn Gln Leu Ile Asp His Leu Leu Gly Glu	
400 405 410	
aac gat agc atg cct aag gat gcc aag tac ctg ttc cgc ttg tac atg	1298
Asn Asp Ser Met Pro Lys Asp Ala Lys Tyr Leu Phe Arg Leu Tyr Met	
415 420 425 430	
gct ctg aag caa tac cga gaa gct gcc cag act gcc atc atc att gcc	1346
Ala Leu Lys Gln Tyr Arg Glu Ala Ala Gln Thr Ala Ile Ile Ile Ala	
435 440 445	
aga gaa gag cag tct gca ggc aac tac cgg aat gca cac gat gtt ctc	1394
Arg Glu Glu Gln Ser Ala Gly Asn Tyr Arg Asn Ala His Asp Val Leu	
450 455 460	
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Phe Ser Met Tyr Ala Glu Leu Lys Ser Gln Lys Ile Lys Ile Pro Ser	
465 470 475	
gag atg gcc acc aac ctc atg att ctg cac agc tat ata cta gta aga	1490
Glu Met Ala Thr Asn Leu Met Ile Leu His Ser Tyr Ile Leu Val Arg	
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Phe Met Leu Lys Met Glu Ile Thr *	
495 500	
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gcctgaatac cgcagcaaaa tagatgccaa atacaaaaag aagatcgagg gaatggtcag	1722
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gctgagtcctg ctgctcctgc tgctgctgct ccagcctgta acctgtgcct acaccacgcc						180	
aggccccccc cagagccctc accacgctgg gcgccccag agccacacc						atg ccg	236
						Met Pro	
						1	
ggc acc tac gct ccc tcg acc aca ctc agt agt ccc agc acc cag ggc						284	
Gly Thr Tyr Ala Pro Ser Thr Thr Leu Ser Ser Pro Ser Thr Gln Gly							
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ctg caa gag cag gca cgg gcc ctg atg cgg gac ttc ccg ctc gtg gac						332	
Leu Gln Glu Gln Ala Arg Ala Leu Met Arg Asp Phe Pro Leu Val Asp							
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ggc cac aac gac ctg ccc ctg gtc cta agg cag gtt tac cag aaa ggg						380	
Gly His Asn Asp Leu Pro Leu Val Leu Arg Gln Val Tyr Gln Lys Gly							
35	40			45			50
cta cag gat gtt aac ctg cgc aat ttc agc tac ggc cag acc agc ctg						428	
Leu Gln Asp Val Asn Leu Arg Asn Phe Ser Tyr Gly Gln Thr Ser Leu							
55			60			65	
gac agg ctt aga gat ggc ctc gtg ggc gcc cag ttc tgg tca gcc tat						476	
Asp Arg Leu Arg Asp Gly Leu Val Gly Ala Gln Phe Trp Ser Ala Tyr							
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gtg cca tgc cag acc cag gac cgg gat gcc ctg cgc ctc acc ctg gag						524	
Val Pro Cys Gln Thr Gln Asp Arg Asp Ala Leu Arg Leu Thr Leu Glu							
85			90			95	
cag att gac ctc ata cgc cgc atg tgt gcc tcc tat tct gag ctg gag						572	
Gln Ile Asp Leu Ile Arg Arg Met Cys Ala Ser Tyr Ser Glu Leu Glu							
100			105			110	
ctt gtg acc tcg gct aaa gct ctg aac gac act cag aaa ttg gcc tgc						620	
Leu Val Thr Ser Ala Lys Ala Leu Asn Asp Thr Gln Lys Leu Ala Cys							
115	120			125			130
ctc atc ggt gta gag ggt ggc cac tcg ctg gac aat agc ctc tcc atc						668	
Leu Ile Gly Val Glu Gly Gly His Ser Leu Asp Asn Ser Leu Ser Ile							
135			140			145	
tta cgt acc ttc tac atg ctg gga gtg cgc tac ctg acg ctc acc cac						716	
Leu Arg Thr Phe Tyr Met Leu Gly Val Arg Tyr Leu Thr Leu Thr His							
150			155			160	
acc tgc aac aca ccc tgg gca gag agc tcc gct aag ggc gtc cac tcc						764	
Thr Cys Asn Thr Pro Trp Ala Glu Ser Ser Ala Lys Gly Val His Ser							
165			170			175	
ttc tac aac aac atc agc ggg ctg act gac ttt ggt gag aag gtg gtg						812	
Phe Tyr Asn Asn Ile Ser Gly Leu Thr Asp Phe Gly Glu Lys Val Val							
180			185			190	

gca gaa atg aac cgc ctg ggc atg atg gta gac tta tcc cat gtc tca	860
Ala Glu Met Asn Arg Leu Gly Met Met Val Asp Leu Ser His Val Ser	
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Asp Ala Val Ala Arg Arg Ala Leu Glu Val Ser Gln Ala Pro Val Ile	
215 220 225	
ttc tcc cac tcg gct gcc cgg ggt gtg tgc aac agt gct cgg aat gtt	956
Phe Ser His Ser Ala Ala Arg Gly Val Cys Asn Ser Ala Arg Asn Val	
230 235 240	
cct gat gac atc ctg cag ctt ctg aag aag aac ggt ggc gtc gtg atg	1004
Pro Asp Asp Ile Leu Gln Leu Leu Lys Lys Asn Gly Gly Val Val Met	
245 250 255	
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Val Ser Leu Ser Met Gly Val Ile Gln Cys Asn Pro Ser Ala Asn Val	
260 265 270	
tcc act gtg gca gat cac ttc gac cac atc aag gct gtc att gga tcc	1100
Ser Thr Val Ala Asp His Phe Asp His Ile Lys Ala Val Ile Gly Ser	
275 280 285 290	
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Lys Phe Ile Gly Ile Gly Gly Asp Tyr Asp Gly Ala Gly Lys Tyr Arg	
295 300 305	
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Lys Lys Thr Lys Cys Lys Ala Pro Trp Arg Thr Ser Ser Arg Met Ser	
310 315 320	
agc tga gcagttcctg ccactccgac ctctcacgtc tgcgtcagag acagagtctg	1252
Ser *	
acttcaggcc aggaactcac tgagattccc atacactgga cagccaagtt accagccaag	1312
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D E L T A I S L A N D

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agc Ser	atc Ile	aat Asn 230	aaa Lys	tcc Ser	ggg Gly	gcc Ala	tct Ser 235	tat Tyr	gag Glu	aag Lys	atc Ile	aaa Lys 240	gaa Glu	gtg Val	att Ile	777
ggc Gly	cat His 245	ggc Gly	tgt Cys	aaa Lys	tgg Trp	acg Thr 250	ctc Leu	agc Ser	aga Arg	ttt Phe 255	ttt Phe	tcc Ser	tac Tyr	ctt Leu	cgt Arg	825
agc Ser 260	tgg Trp	gat Asp	gtg Val	gac Asp 265	gat Asp	ctg Leu	ctt Leu	ttg Leu	tgg Trp	aag Lys 270	aaa Lys	atc Ile	cac His	cgc Arg	atg Met 275	873
gtt Val	att Ile	ctc Leu	acc Thr 280	att Ile	ctc Leu	gcc Ala	att Ile	gca Ala 285	cca Pro	tct Ser	gtc Val	ccc Pro	ttt Phe 290	gct Ala	gcc Ala	921
aat Asn	tgc Cys	ttt Phe 295	gag Glu	ctc Leu	ttt Phe	ggg Gly	ttt Phe 300	gat Asp	att Ile	ttg Leu	att Ile	gat Asp 305	gac Asp	aac Asn	ttg Leu	969
aaa Lys	cca Pro 310	tgg Trp	ctt Leu	tta Leu	gag Glu	gtc Val	aac Asn 315	tac Tyr	agc Ser	cca Pro	gcc Ala 320	ttg Leu	acc Thr	ttg Leu	gat Asp	1017
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gac Asp 340	ctg Leu	att Ile	tac Tyr	tta Leu	aat Asn 345	ggc Gly	cta Leu	aga Arg	aat Asn 350	gag Glu	ggg Gly	aga Arg	gaa Glu	gcc Ala	agt Ser 355	1113
aat Asn	gcc Ala	aca Thr	cat His 360	gga Gly	aat Asn	tcc Ser	aac Asn	atc Ile 365	gac Asp	gct Ala	gca Ala	aaa Lys	agt Ser	gac Asp 370	aga Arg	1161
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aca Thr	agc Ser 390	aga Arg	atg Met	tac Tyr	aac Asn	gag Glu	gat Asp 395	gac Asp	tct Ser	gtg Val	gtg Val	gag Glu 400	aaa Lys	gct Ala	gtg Val	1257
agt Ser	gtg Val 405	cgt Arg	cct Pro	gaa Glu	gct Ala	gca Ala 410	cct Pro	gcc Ala	tcc Ser	cag Gln	ctg Leu 415	gaa Glu	gga Gly	gag Glu	atg Met	1305
agt Ser 420	ggg Gly	cag Gln	gat Asp	ttt Phe	cat His 425	ctg Leu	tca Ser	aca Thr	agg Arg	gag Glu 430	atg Met	cca Pro	caa Gln	agc Ser	aag Lys 435	1353

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Val	Asp	Arg	Arg	Gly	Gly	Pro	Leu	Val	Ala	Lys	Glu	Thr	Val	Lys	Leu	
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Leu	Ser	Gly	Asp	Pro	Thr	Val	Gly	Gln	Ala	Lys	Asp	Phe	Leu	Glu	Pro	
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Glu	Ile	Pro	Asn	Gln	Lys	Lys	Glu	Thr	Gln	Ile	Leu	Leu	Asp	Leu	Leu	
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cct	gac	aga	atc	ggg	cat	gga	aca	ttt	ctc	aac	tcc	ggc	gag	gga	gga	742
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Gln	His	His	Phe	Gly	Phe	Trp	Tyr	Ser	Ile	Ala	His	Pro	Ser	Val	Ile	
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Cys	Thr	Asp	Asp	Lys	Gly	Val	Phe	Ala	Thr	His	Leu	Ser	Gln	Glu	Tyr	
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cag	ctg	gca	gct	gaa	aca	ttt	aat	ttg	acc	cag	tct	cag	gtg	tgg	gat	982
Gln	Leu	Ala	Ala	Glu	Thr	Phe	Asn	Leu	Thr	Gln	Ser	Gln	Val	Trp	Asp	
			195					200					205			
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Ile *	
240	
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